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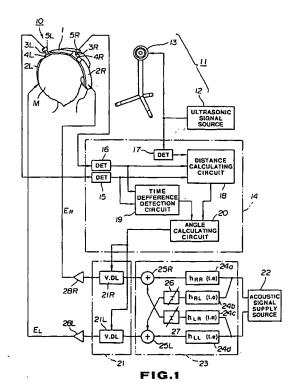
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(54) Acoustic signal reproducing apparatus.

67 An acoustic signal reproducing apparatus for reproducing acoustic signals by headphone devices (2) is disclosed. The left channel and right channel acoustic signals are provided by a device (23) for processing the acoustic signals with constant transmission characteristics from an imaginary sound source to both of the listener's ears. The left channel and right channel acoustic signals, processed in this manner by the device (23), are provided by an acoustic signal processing device (21) with a level difference and time difference consistent with changes in orientation of the listener's head (M).





EUROPEAN SEARCH REPORT

Application Number

EP 91 30 0306

Category	Citation of document with in of relevant par	dication, where appropriate,	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
Y	PATENT ABSTRACTS OF JAP	AN	1	H04S1/00	
	vol. 13, no. 364 (E-805)14 August 1989	_	HQ4R5/Q4	
	& JP-A-1 121 000 (SONY) 12 May 1989				
	* abstract *	,	İ		
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Y	PATENT ABSTRACTS OF JAP	AN	1		
	vol. 7, no. 226 (E-202)				
	& JP-A-58 116 900 (SON	Y) 12 July 1983	i		
	* abstract *				
A	WD_A_0 003 632 / COODED	ET AL S	4		
^	WD-A-8 903 632 (COOPER		1		
	* page 9, line 28 - page 11, line 32; figures 1A,1B *				
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A '	DE-A-2 918 831 (INSTITU	T FÜR RUNDFUNKTECHNIK)	5		
	* claim 1; figure 1 *		ļ		
A	 US-A-3 962 543 (BLAUERT	- ET AL.)			
				TECHNICAL FIELDS	
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	chnological background n-written disclosure			ily, corresponding	
	ermediate document	document			

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